

COURSE SLO ASSESSMENT REPORT, SCC

Department: Mathematics Course: Math 185 Calculus II

Year: 2013 Semester: Fall

1) Outcome to be assessed	2) Means of assessment and criteria of success	3) Summary of data collected	4) Analysis of data	5) Plan of action/what to do next
<p><u>SLO 1:</u> Evaluate and approximate integrals using a variety of techniques and apply integration to solve problems involving area, volume, work, and differential equations</p> <p><u>SLO 2:</u> Represent functions using parametric equations, polar equations, and Taylor series and apply calculus techniques to these representations.</p>	<p>Analyze two problems on the final from each instructor. Since there is no department final, I chose problems with similar levels of work required.</p> <p>SLO 1: Integration using a trig substitution.</p> <p>SLO 2: Parametric Equation</p> <p>Rubric: 4 pts – clear, complete solution 3 pts – small mistakes not related to the concept, concept is understood 2 pts – mistakes, concept is partially understood 1 pt - some relevant work, concept not understood 0 pt – blank, no relevant work *A score of 3 or 4 is considered successful</p>	<p>Collected 76 exams.</p> <p><u>SLO 1:</u> % successful – 69.7%</p> <p><u>SLO 2:</u> % successful – 43.4 %</p>	<p>Differences in the type and level of difficulty of the topics varied from instructors. We need to unify the final by embedding questions.</p> <p>Success rates are decreasing for the topics assessed this semester.</p>	<p>Inform department of results.</p> <p>Inform instructors who are teaching Math 180 of results so that they may be able to better prepare students entering into Calculus II. This would include expected level of difficulty of questions and rigor.</p> <p>Inform instructors who are teaching Math 185 next semester to stress topics that students are weak on.</p> <p>Level and types of question seems to vary more than previous semesters. This show a need for multiple embedded questions on each exam.</p>